## **CLAIMS**

- Use of a preparation based on an extract of algae of the Dictyotales family, with a view of producing a topical composition intended for cosmetic purposes, with a view to the maturation of Keratinocytes, with amplification of the synthesis of the cytokins and increase of the desmosomial proteins.
- 2. Use of a preparation on a basis of extract of algae of the Dictyotales family, according to claim 1, characterized in that the active principle is a product prepared after extraction from the algae and purification by HPLC on grafted silica in C<sub>18</sub> of a raw extract then elution by a mixture of methanol/water, to isolate an active fraction possessing a period of retention of between 9 and 12 minutes.
- Use of a preparation according to claim 1, in which the active principle results from an ethanol or acetone extract of the alga Padina pavonica.
- Use of a preparation according to claim 1 or claim 2, in which the extract of Padona pavonica is evaporated until dry and then dispersed in a liquid or solid inert support, and diluted in a liquid or solid inert support.
- Use of a preparation according to claim 1 or claim 2, in which the extract of Padina pavonica is incorporated into a support or vehicle appropriate to the achievement of topical preparations in an oily or aqueous phase, or dry, such as creams, suspensions, emulsions, gels, ointments or powder.
- Use of a composition according to claim 1 or claim 2, in which the extract of Padina pavonica is incorporated into a solution of polyethylene glycol containing a dispersant or a surfactant, and in which a silicone oil is added to the solution to produce a fluid emulsion.
- 7. Use of a preparation with a base of extract of algae of the Dictyotales family according to claim 1, in which the active principle content ranges from 0.1 to 200 g per kg of preparation.

- 8. Use of a preparation based on an extract of algae of the Dictyotales family according to claim 1 or claim 2, in which the active principle content ranges from 4 to 150 g per kg of preparation.
- 9. Use of a preparation based on an extract of algae of the Dictyotales family according to claim 1 or claim 2, in which the concentration of extract of algae is dosed in activity to 200,000 Units (UA) per litre.
- 10. Use of a preparation based on an extract of algae of the Dictyotales family according to claim 1 or claim 2, in which the Padina pavonica extract content ranges from 20 to 80,000 Units of activity (UA) per kg of active principle on a support, per kg of final topical preparation.
- 11. Use of a preparation based on an extract of algae of the Dictyotales family according to claim 1 or claim 2, in culture media, to increase the maturation of Keratinocytes.